**INFORMATION DISCLOSURE STATEMENT**

Applicant	:	Gerald A. Hutchinson, et al.
App. No.	:	10/705,748
Filed	:	November 10, 2003
For	:	INJECTION MOLD HAVING A WEAR RESISTANT PORTION AND A HIGH HEAT TRANSFER PORTION
Examiner	:	Unknown
Group Art Unit	:	1732

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

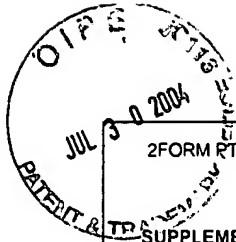
Enclosed is form PTO-1449 listing 299 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 27 July 2004

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Karoline A. Delaney
Registration No. 44,058
Attorney of Record
Customer No. 20,995
(949) 760-0404



2FORM RTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. APTLTD.044A	APPLICATION NO. 10/705,748
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Hutchinson et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	3,224,043	12/1965	Lameris, et al			
	2.	3,305,528	02/1967	Wynstra, et al			
	3.	3,317,471	05/1967	Johnson, et al			
	4.	3,395,118	07/1968	Reinking, et al			
	5.	3,482,284	12/1969	Rees			
	6.	3,632,267	01/1972	Kader			
	7.	3,719,735	03/1973	Valyi			
	8.	3,740,181	06/1973	Uhlig			
	9.	3,813,198	05/1974	Valyi			
	10.	3,819,314	06/1974	Marcus			
	11.	3,857,660	12/1974	Flynn et al.			
	12.	3,869,056	03/1975	Valyi			
	13.	3,878,282	04/1975	Bonis			
	14.	3,882,213	05/1975	Uhlig			
	15.	3,944,643	03/1976	Sato et al.			
	16.	3,947,176	03/1976	Rainville			
	17.	3,963,399	06/1976	Zavasnik			
	18.	3,966,378	06/1976	Valyi			
	19.	4,040,233	09/1977	Valyi			
	20.	4,061,705	12/1977	Marcus			
	21.	4,065,246	12/1977	Marcus			
	22.	4,079,851	03/1978	Valyi			
	23.	4,092,391	05/1978	Valyi			
	24.	4,116,606	09/1978	Valyi			
	25.	4,145,392	03/1979	Valyi			
	26.	4,149,645	04/1979	Valyi			
	27.	4,151,247	04/1979	Hafele			
	28.	4,151,248	04/1979	Valyi			

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	29.	4,213,751	07/1980	Fernandez			
	30.	4,323,341	04/1982	Valyi			
	31.	4,357,296	11/1982	Hafele			
	32.	4,375,947	03/1983	Marcus			
	33.	4,376,090	03/1983	Marcus			
	34.	4,378,963	04/1983	Schouenberg			
	35.	4,403,090	09/1983	Smith			
	36.	4,438,254	03/1984	Doorakian, et al			
	37.	4,480,082	10/1984	McLean, et al			
	38.	4,515,836	05/1985	Cobbs, et al.			
	39.	4,538,542	09/1985	Kennon, et al.			
	40.	4,540,543	09/1985	Thomas, et al			
	41.	4,560,741	12/1985	Davis, et al.			
	42.	4,573,596	03/1986	Slat			
	43.	4,564,541	01/1986	Taira et al.			
	44.	4,569,869	02/1986	Kushida et al.			
	45.	4,578,295	03/1986	Jabarin			
	46.	4,587,073	05/1984	Jakobsen			
	47.	4,590,021	05/1986	Ota et al.			
	48.	4,604,044	08/1986	Hafele			
	49.	4,604,258	08/1986	Valyi			
	50.	4,615,925	10/1986	Nilsson			
	51.	4,646,925	03/1987	Nohara			
	52.	4,647,648	03/1987	Silvis, et al			
	53.	4,699,809	10/1987	Maruhashi et al			
	54.	4,715,504	12/1987	Chang, et al.			
	55.	4,741,936	05/1988	Nohara, et al.			
	56.	4,755,404	07/1988	Collette			

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	57.	4,818,575	04/1989	Hirata et al.			
	58.	4,830,811	5/1989	Aoki			
	59.	4,847,129	07/1989	Collette et al.			
	60.	4,867,664	09/1989	Fukuhara			
	61.	4,871,410	10/1989	Bonnebat et al.			
	62.	4,937,130	06/1990	Clagett et al.			
	63.	4,940,616	07/1990	Yatsu, et al.			
	64.	4,956,143	09/1990	McFarlane			
	65.	4,980,211	12/1990	Kushida			
	66.	5,006,381	04/1991	Nugent, Jr. et al.			
	67.	5,077,111	12/1991	Collette			
	68.	5,085,821	02/1992	Nohara			
	69.	5,089,588	02/1992	White et al.			
	70.	5,094,793	03/1992	Schrenk, et al.			
	71.	5,115,075	05/1992	Brennan, et al.			
	72.	5,134,218	07/1992	Brennan, et al.			
	73.	5,143,998	09/1992	Brennan, et al.			
	74.	5,149,768	09/1992	White et al.			
	75.	5,188,787	02/1993	King, et al.			
	76.	5,202,074	04/1993	Schrenk, et al.			
	77.	5,246,751	09/1993	White et al.			
	78.	5,275,853	01/1994	Silvis, et al			
	79.	RE. 34,537	02/1994	Dyrup			
	80.	5,300,326	04/1994	Zezinka et al.			
	81.	5,300,541	04/1994	Nugent, Jr., et al			
	82.	5,302,417	04/1994	Yamauchi et al.			
	83.	5,354,532	10/1994	Nakai, et al.			
	84.	5,443,378	08/1995	Jaroschek, et al.			
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	85.	5,443,766	08/1995	Slat, et al.			
	86.	5,464,106	11/1995	Slat, et al.			
	87.	5,472,753	12/1995	Farha			
	88.	5,489,455	02/1996	Nugent, Jr., et al.			
	89.	5,491,204	02/1996	Nugent, Jr., et al			
	90.	5,508,076	04/1996	Bright			
	91.	5,509,965	04/1996	Harry, et al.			
	92.	5,540,878	07/1996	Schrenk, et al.			
	93.	5,551,858	09/1996	Yoshizawa, et al.			
	94.	5,571,470	11/1996	Plester			
	95.	5,582,788	12/1996	Collette, et al.			
	96.	5,599,494	02/1997	Marcus			
	97.	5,628,950	05/1997	Schrenk, et al.			
	98.	5,628,957	05/1997	Collette, et al.			
	99.	5,639,848	06/1997	Nugent, Jr. et al.			
	100.	5,645,183	07/1997	Slat, et al.			
	101.	5,651,933	07/1997	Slat, et al.			
	102.	5,652,034	07/1997	Seiner			
	103.	5,676,267	10/1997	Slat et al.			
	104.	5,688,570	11/1997	Ruttinger			
	105.	5,688,572	11/1997	Slat, et al.			
	106.	5,728,439	03/1998	Carlblom			
	107.	5,731,094	03/1998	Brennan, et al.			
	108.	5,759,653	06/1998	Collette et al.			
	109.	5,759,654	06/1998	Cahill			
	110.	5,759,656	06/1998	Collette et al.			
	111.	5,772,056	06/1998	Slat			
	112.	5,780,128	07/1998	Farha			

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	113.	5,804,305	09/1998	Slat et al.			
	114.	5,834,078	11/1998	Cavitt et al.			
	115.	5,837,339	11/1998	Wood et al.			
	116.	5,894,023	04/1999	Schramm et al.			
	117.	5,906,285	05/1999	Slat			
	118.	5,906,787	05/1999	Plester			
	119.	5,914,138	06/1999	Swenson			
	120.	5,927,525	07/1999	Darr, et al.			
	121.	5,968,620	10/1999	Harvey et al.			
	122.	5,972,445	10/1999	Kimura et al.			
	123.	5,989,661	11/1999	Krishnakumar et al.			
	124.	6,051,294	04/2000	White et al.			
	125.	6,068,900	05/2000	Kohn et al.			
	126.	6,090,460	07/2000	Collette et al.			
	127.	6,123,211	09/2000	Rashid et al.			
	128.	6,136,354	10/2000	Wood et al.			
	129.	6,168,740 B1	01/2001	Koch et al.			
	130.	6,180,715 B1	01/2001	Schmidt			
	131.	6,312,641 B1	11/2001	Hutchinson			
	132.	6,319,574 B1	11/2001	Slat			
	133.	6,352,426 B1	03/2002	Hutchinson et al.			
	134.	6,365,247 B1	04/2002	Cahill et al.			
	135.	6,372,318 B1	04/2002	Collette et al.			
	136.	6,391,408 B1	05/2002	Hutchinson			
	137.	6,413,075	07/2002	Sykes et al.			
	138.	6,428,737 B1	08/2002	Collette et al.			
	139.	6,461,697 B1	10/2002	Slat et al.			
	140.	6,485,804 B1	11/2002	Nakamachi et al.			
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	141.	6,524,672 B1	02/2003	Slat et al.			
	142.	6,676,883 B2	01/2004	Hutchinson et al.			
	143.	2001/0030163 A1	10/2001	Rashid et al.			
	144.	2002/0001686 A1	01/2002	Kashiba et al.			
	145.	2002/0028870 A1	03/2002	Lan et al.			
	146.	2002/0048682 A1	04/2002	Subramanian et al.			
	147.	2002/0061371 A1	05/2002	Schmidt et al.			
	148.	2002/0090473 A1	07/2002	Lee et al.			
	149.	2002/0155236 A1	10/2002	Cahill et al.			
	150.	2003/0012904 A1	01/2003	Hutchinson et al.			
	151.	2003/0001315 A1	01/2003	Hutchinson et al.			
	152.	2003/0031814 A1	02/2003	Hutchinson et al.			
	153.	2003/0039779	02/2003	Share et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	154.	CA 1 174 020	9/1984	Canada				
	155.	EP 0 019 438 A1	11/1980	Europe				
	156.	EP 0 073 151 A2	02/1983	Europe				
	157.	EP 0 092 979 B1	11/1983	Europe				
	158.	EP 0 095 909 B1	05/1983	Europe				
	159.	EP 0 096 581 B1	12/1983	Europe				
	160.	EP 0 099 727 A2	07/1983	Europe				
	161.	EP 0 100 375 A2	09/1982	Europe				
	162.	EP 0 105 826 B1	07/1983	Europe				
	163.	EP 0 118 226 B2	09/1984	Europe				
	164.	EP 0 125 107A1	11/1984	Europe				

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							YES
	165.	EP 0 126 575 A2	05/1984	Europe			
	166.	EP 0 156 085 B1	11/1984	Europe			
	167.	EP 0 171 161 B1	06/1985	Europe			
	168.	EP 0 174 265 A2	03/1985	Europe			
	169.	EP 0 153 120 B1	08/1985	Europe			
	170.	EP 0 153 894 B1	09/1985	Europe			
	171.	EP 0 160 984 B1	11/1985	Europe			
	172.	EP 0 176 229 B1	04/1986	Europe			
	173.	EP 0 180 191 B1	05/1986	Europe			
	174.	EP 0 191 701 A2	08/1986	Europe			
	175.	EP 0 199 633 B1	10/1986	Europe			
	176.	EP 0 203 630 A2	12/1986	Europe			
	177.	EP 0 212 339 B1	04/1983	Europe			
	178.	EP 0 215 630 B1	03/1987	Europe			
	179.	EP 0 218 245 B1	04/1987	Europe			
	180.	EP 0 225 049 A2	06/1987	Europe			
	181.	EP 0 266 900 A2	05/1988	Europe			
	182.	EP 0 278 403 B1	08/1988	Europe			
	183.	EP 0 280 736 A1	09/1988	Europe			
	184.	EP 0 287 839 A2	10/1988	Europe			
	185.	EP 0 302 117 A1	02/1989	Europe			
	186.	EP 0 306 675 B1	03/1989	Europe			
	187.	EP 0 325 030 A2	11/1988	Europe			
	188.	EP 0 341 044 B1	03/1989	Europe			
	189.	EP 0 350 745 A2	01/1990	Europe			
	190.	EP 0 351 118A2	01/1990	Europe			
	191.	EP 0 368 278 A2	05/1990	Europe			
	192.	EP 0 376 469 B1	07/1990	Europe			
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							YES	NO
	193.	EP 0 387 614 B1	06/1994	Europe				
	194.	EP 0 395 237 A1	04/1990	Europe				
	195.	EP 0 462 455 A1	06/1991	Europe				
	196.	EP 0 518 703 A2	12/1992	Europe				
	197.	EP 0 518 703 A3	12/1992	Europe				
	198.	EP 0 524 572 B1	07/1992	Europe				
	199.	EP 0 544 545 A1	11/1992	Europe				
	200.	EP 0 571 116 A1	10/1993	Europe				
	201.	EP 0 581 970 A1	02/1994	Europe				
	202.	EP 0 583 953 A1	12/1993	Europe				
	203.	EP 0 653 982 B1	09/1997	Europe				
	204.	EP 0 671 251A1	09/1995	Europe				
	205.	EP 0 678 554 A1	10/1995	Europe				
	206.	EP 0 689 933 A2	01/1996	Europe				
	207.	EP 0 744 263 A2	11/1996	Europe				
	208.	EP 0 767 049 A2	10/1996	Europe				
	209.	EP 0 774 491 A2	11/1996	Europe				
	210.	EP 0 756 931 A3	02/1997	Europe				
	211.	EP 0 756 931 A2	02/1997	Europe				
	212.	EP 0 794 007 A1	09/1997	Europe				
	213.	EP 0 822 213 A1	02/1998	Europe				
	214.	EP 0 837 763 B1	12/2001	Europe				
	215.	EP 0 894 604 A1	02/1999	Europe				
	216.	EP 0 964 031 A2	12/1999	Europe				
	217.	FR 2538297	06/1984	France				
	218.	DE 21 08 774 A	09/1971	Germany				
	219.	DE 26 49 640	05/1978	Germany				
	220.	DE 30 44 930 A1	10/1981	Germany				
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							YES
	221.	DE 3407 060 C2	04/1986	Germany			
	222.	DE 3518 441 C2	03/1987	Germany			
	223.	DE 3518 875 C2	09/1989	Germany			
	224.	DE 3121 420 C2	03/1990	Germany			
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	226.	DE 298 620 A5	03/1992	Germany			
	227.	DE 196 40 662 C1	03/1998	Germany			
	228.	GB 1482956	08/1977	Great Britain			
	229.	GB 2011309A	07/1979	Great Britain			
	230.	JP 55-37335	03/1980	Japan			
	231.	JP 57093126	06/1982	Japan			
	232.	JP 57-93126	10/1982	Japan			
	233.	JP 58092536	01/1983	Japan			
	234.	JP 58173634A	10/1983	Japan			
	235.	JP 58215309A	12/1983	Japan			
	236.	JP 61002519	01/1986	Japan			
	237.	JP 61185417	08/1986	Japan			
	238.	JP 04074620A	03/1992	Japan			
	239.	JP 04197634	07/1992	Japan			
	240.	JP 08281892	10/1996	Japan			
	241.	JP 106219	4/2001	Japan			
	242.	JP 11090975A	4/1999	Japan			
	243.	WO 87/05276	09/1987	WIPO			
	244.	WO 89/08556	09/1989	WIPO			
	245.	WO 90/07553	07/1990	WIPO			
	246.	WO 92/01558	02/1992	WIPO			
	247.	WO 93/01988	07/1991	WIPO			
	248.	WO 93/07068	04/1993	WIPO			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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	251.	WO 94/19186	09/1994	WIPO				
	252.	WO 94/25366	11/1994	WIPO				
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2FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. APTLTD.044A	APPLICATION NO. 10/705,748
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Hutchinson et al.	
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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
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